

Australian Standard™

Paints and related materials—Methods of test

Method 401.6: Hard dry condition (mechanical thumb test)

AS 1580.401.6

1 SCOPE

This Standard sets out a method for determining the hard dry condition of paint films.

NOTES:

- 1 Because of the great variety of paints and the different types of deformation, the method does not attempt to specify an end point. That has been left to the appropriate product specification.
- 2 This test should not be undertaken until the paint film has dried beyond the surface dry condition (see AS 1580.401.1).
- 3 The terms 'hard dry' has not absolute meaning. The method simulates, under controlled conditions, the effect of a thumb being pressed against a paint film while being rotated through 270°.

2 PRINCIPLE

A cloth-covered, motor-driven, rubber-tipped plunger with a specified loading is brought into contact with the test film and rotated in a prescribed manner. It is then lifted and the film is examined for marking, marring or other discoloration or damage.

3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

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| 1580 | Paints and related materials—Methods of test |
| 1580.101.1 | Method 101.1: Conditions of test—Temperature, humidity and airflow control |
| 1580.401.1 | Method 401.1: Surface dry condition |
| 1683 | Method of test for elastomers |
| 1683.15.1 | Method 15.1: International rubber hardness |

Australian Defence Specification

DEF (AUST) 5012A Cloth, denim, cotton; cloth, drill, cotton; cloth, satin cloth

4 APPARATUS

4.1 General

The apparatus consists essentially of a plunger, with associated mechanisms for lowering it, rotating it through 270° under a prescribed loading and then raising it.